

**ABSTRACT**

A method is described for making a composite, such as a piezoelectric composite, having a predetermined volume ratio. Initially, a pair of base slabs  
5 are diced to form slot having uniform pitch spacing such that a material portion of one diced base slab may be received within the slots of another diced base slab. The diced base slabs are interdigitated and joined to form a first piezoelectric composite that can subsequently be diced to form slots having a uniform pitch spacing that are spaced from the first slots. Two diced  
10 first piezoelectric composites are interdigitated and joined to form a second piezoelectric composite of reduced volume ratio and finer pitch.

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